



K23U 1114

Reg. No. :

Name : ✓

**IV Semester B.Sc. Degree (CBCSS – OBE – Regular/Supplementary/
Improvement) Examination, April 2023
(2019 Admission Onwards)**

**COMPLEMENTARY ELECTIVE COURSE IN COMPUTER SCIENCE
4C04CSC : Computation Using Python**

Time : 3 Hours

Max. Marks : 32

**PART – A
(Short Answer)**

Answer **all** questions.

1. What are the common built-in data types in Python ?
2. What is a variable in Python ? How to assign values to variables ?
3. What is a dictionary in Python ?
4. Discuss elif statement in Python with an example.
5. What is the use of import statement in Python ?

(5×1=5)

**PART – B
(Short Essay)**

Answer **any 4** questions.

6. What is the difference between lists and tuples ?
7. What are Python namespaces ?
8. What is type conversion in Python ?
9. How does break, continue and pass work ?
10. Explain the use of the 'with' statement with an example.
11. Differentiate pop() and remove() methods in list.

(4×2=8)

P.T.O.



PART – C
(Essay)

Answer **any 3** questions.

12. Discuss the common exception types in Python with suitable examples.
13. Differentiate between del statement and pop() method of list.
14. Write a Python program to sort the words from a sentence according to their alphabetical order without using sort() function.
15. Explain method overriding in Python with an example.
16. Briefly explain about Packages in Python.

(3×3=9)

PART – D
(Long Essay)

Answer **any 2** questions.

17. Discuss different file mode operations in Python with examples.
18. Explain different types of looping statements in Python with examples.
19. Write a program in Python to delete comment lines from a file.
20. What is data visualization ? Explain the data visualization processes and different data visualization formats in Python.

(2×5=10)
